## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1	1. (Currently amended) A method for determining a class dependency that
2	identifies a supporting class on which a target class depends, wherein the target
3	class is defined in an object-oriented programming language, comprising:
4	receiving a representation of the target class at a first platform-independent
5	virtual machine;
6	creating a model of the target class from the representation;
7	analyzing the model to detect references to the supporting class;
8	if a supporting class is detected, determining a class dependency for the
9	supporting class; and
10	creating a list of dependent classes for the target class and supporting
11	classes; and
12	sharing the list of dependent classes with a second platform-independent
13	virtual machine so that the second platform-independent virtual machine does not
14	need to create the list of dependent classes.
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1	2. (Original) The method of claim 1, further comprising, identifying
2	classes that an object depends upon by:
3	receiving a representation of the object;
4	serializing the referenced object;
5	parsing the data resulting from the object serialization to identify classes
6	referenced from the target object's properties, configuration, or state; and

/	determining the dependent classes of the referenced object.
1	3. (Original) The method of claim 1, further comprising saving the list of
2	dependent classes to a storage structure.
1	4. (Original) The method of claim 3, wherein the storage structure is one
2	of a hash table and a database.
1	5. (Original) The method of claim 1, wherein creating the list of dependent
2	classes includes creating one of a distribution list and a distribution file.
1	6. (Original) The method of claim 2, further comprising:
2	inserting the object into an object database;
3	determining if the target class and supporting classes for the target class
4	are in the class path; and
5	adding the target class and supporting classes for the target class to the
6	class path if necessary.
1	7. (Original) The method of claim 2, further comprising:
2	retrieving the object from the object database;
3	determining if the target class and supporting classes for the target class
4	are in the class path; and
5	adding the target class and supporting classes for the target class to the
6	class path if necessary.
1	8. (Original) The method of claim 1, further comprising filtering the list of

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identified classes to remove duplicate and core class references.

I	9. (Original) The method of claim 1, further comprising saving the list of
2	dependent classes of the target class as well as the list of dependent classes of the
3	supporting classes in cache to facilitate subsequent lookups of dependent classes
4	of the target class.
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1	10. (Currently amended) A computer-readable storage medium storing
2	instructions that when executed by a computer cause the computer to perform a
3	method for determining a class dependency that identifies a supporting class on
4	which a target class depends, wherein the target class is defined in an object-
5	oriented programming language, the method comprising:
6	receiving a representation of the target class at a first platform-independer
7	virtual machine;
8	creating a model of the target class from the representation;
9	analyzing the model to detect references to the supporting class;
10	if a supporting class is detected, determining a class dependency for the
l 1	supporting class; and
12	creating a list of dependent classes for the target class and supporting
13	classes: and
4	sharing the list of dependent classes with a second platform-independent
15	virtual machine so that the second platform-independent virtual machine does not
16	need to create the list of dependent classes.
1	11. (Original) The computer-readable storage medium of claim 10,
2	wherein the method further comprises, identifying classes that an object depends
3	upon by:
4	receiving a representation of the object;
5	serializing the referenced object;

6	parsing the data resulting from the object serialization to identify classes
7	referenced from the target object's properties, configuration, or state; and
8	if a target class is identified, determining the dependent classes of the
9	target class.
1	12. (Original) The computer-readable storage medium of claim 10,
2	wherein the method further comprises saving the list of dependent classes to a
3	storage structure.
1	13. (Original) The computer-readable storage medium of claim 12,
2	wherein the storage structure is one of a hash table and a database.
1	14. (Original) The computer-readable storage medium of claim 10,
2	wherein creating the list of dependent classes includes creating one of a
3	distribution list and a distribution file.
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1	15. (Original) The computer-readable storage medium of claim 11,
2	wherein the method further comprises:
3	inserting the object into an object database;
4	determining if the target class and supporting classes for the target class
5	are in the class path; and
6	adding the target class and supporting classes for the target class to the
7	class path if necessary.
1	16. (Original) The computer-readable storage medium of claim 11,
2	wherein the method further comprises:
3	retrieving the object from the object database:

4	determining if the target class and supporting classes for the target class
5	are in the class path; and
6	adding the target class and supporting classes for the target class to the
7	class path if necessary.
1	17. (Original) The computer-readable storage medium of claim 10,
2	wherein the method further comprises filtering the list of identified classes to
3	remove duplicate and core class references.
1	18. (Original) The computer-readable storage medium of claim 10,
2	wherein the method further comprises saving the list of dependent classes of the
3	target class as well as the list of dependent classes of the supporting classes in
4	cache to facilitate subsequent lookups of dependent classes of the target class.
1	19. (Currently amended) An apparatus that determines a class dependency
2	that identifies a supporting class on which a target class depends, wherein the
3	target class is defined in an object-oriented programming language, comprising:
4	a receiving mechanism that is configured to receive a representation of the
5	target class at a first platform-independent virtual machine;
6	a modeling mechanism that is configured to create a model of the target
7	class from the representation;
8	an analysis mechanism that is configured to analyze the model to detect
9	references to the supporting class;
10	a supporting mechanism that is configured to determine a class
11	dependency for the supporting class; and
12	a listing mechanism that is configured to create a list of dependent classes
13	for the target class and supporting classes; and

14	a sharing mechanism that is configured to share the list of dependent
15	classes with a second platform-independent virtual machine so that the second
16	platform-independent virtual machine does not need to create the list of dependent
17	<u>classes</u> .
1	20. (Original) The apparatus of claim 19, wherein the receiving
2	mechanism is additionally configured to receive a representation of an object;
3	a serializing mechanism is configured to serialize the referenced object;
4	a parsing mechanism configured to parse the data resulting from the object
5	serialization to identify classes referenced from the target object's properties,
6	configuration, or state; and
7	a supporting mechanism that is configured to determine the dependent
8	classes of the target class.
1	21. (Original) The apparatus of claim 19, wherein the listing mechanism is
2	configured to save the list of dependent classes to a storage structure.
1	22. (Original) The apparatus of claim 21, wherein the storage structure is
2	one of a hash table and a database.
1	23. (Original) The apparatus of claim 19, wherein the listing mechanism is
2	configured to create the list of dependent classes, including creating one of a
3	distribution list and a distribution file.
1	24. (Original) The apparatus of claim 20, further comprising:
2	an insertion mechanism configured to insert the object into an object
3	database:

4	a determining mechanism configured to determine if the target class and
5	supporting classes for the target class are in the class path; and
6	an adding mechanism configured to add the target class and supporting
7	classes for the target class to the class path if necessary.
1	25. (Original) The apparatus of claim 20, further comprising:
2	a retrieving mechanism configured to retrieve the object from an object
3	database;
4	a determining mechanism configured to determine if the target class and
5	supporting classes for the target class are in the class path; and
6	an adding mechanism configured to add the target class and supporting
7	classes for the target class to the class path if necessary.
l	26. (Original) The apparatus of claim 19, further comprising a filtering
2	mechanism configured to filter the list of identified classes to remove duplicate
3	and core class references.
1	27. (Original) The apparatus of claim 19, further comprising a saving
2	mechanism configured to save the list of dependent classes of the target class as
3	well as the list of dependent classes of the supporting classes in cache to facilitat
4	subsequent lookups of dependent classes of the target class.